

Rec'd PCT/PTO 13 SEP 2004

Rec'd PCT/PTO 13 SEP 2004

2011 425

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
2 October 2003 (02.10.2003)

PCT

(10) International Publication Number
WO 03/080922 A1

(51) International Patent Classification⁷: D21B 1/00, D21C 1/00 // B07C 5/14

(21) International Application Number: PCT/FI03/00219

(22) International Filing Date: 21 March 2003 (21.03.2003)

(25) Filing Language: Finnish

(26) Publication Language: English

(30) Priority Data:
20020561 22 March 2002 (22.03.2002) FI

(71) Applicant (for all designated States except US): M-REAL OYJ [FI/FI]; Revontulentie 6, FIN-02100 Espoo (FI).

(72) Inventors; and

(75) Inventors/Applicants (for US only): RANUA, Jukka [FI/FI]; Karnaistenkatu 30 A, FIN-08100 Lohja (FI). LILLEBERG, Risto [FI/FI]; Tikasmäenkuja 6, FIN-02200 Espoo (FI).

(74) Agent: SEPPO LAINE OY; Itämerenkatu 3 B, FIN-00180 Helsinki (FI).

(81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD FOR ADJUSTING THE FIBROUS PROPERTIES OF PULP

(57) Abstract: The invention relates to a method for adjusting the fibrous properties of chemical pulp, mechanical pulp or chemi-mechanical pulp, for adjusting the smoothness of the properties and for decreasing any variation in quality. According to the method, in the manufacture of pulp, a wood material is used, which is selected according to the number of the tree's annual rings. The wood material is classified according to the number of annual rings into categories that represent a certain fibre dimension property, such as the fibre length or the fibre coarseness. The wood material is classified by log or group of logs at any stage in connection with the felling of the wood or in the plant or at some stage of the chain between the stub and pulping and grinding or a refiner.



WO 03/080922 A1